

Formononetin

Catalog No: tcsc3081

 Available Sizes

 size: 10mg

 size: 50mg

 size: 100mg

 size: 200mg

 size: 500mg

 size: 500mg

 Specifications

 CAS No: 485-72-3

 Formula: c₁₆H₁₂O₄

Pathway: Protein Tyrosine Kinase/RTK

Target: FGFR

Purity / Grade:

>98%

Solubility: DMSO : \geq 35 mg/mL (130.47 mM)

Alternative Names:

Biochanin B;Flavosil;Formononetol

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Observed Molecular Weight:

268.26

Product Description

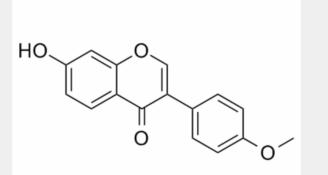
Formononetin (Formononetol; Flavosil) is a bioactive component extracted from the red clover; inhibits the proliferation of DU-145/PC-3 cells in a dose-dependent manner.

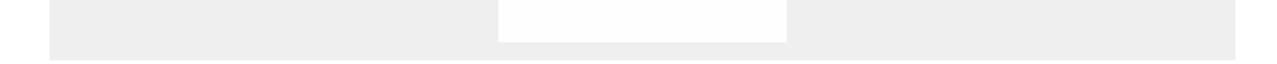
IC50 value:

Target: anti-cancer

in vitro: formononetin inhibited the proliferation of DU-145 cells in a dose-dependent manner. DU-145 cells treated with different concentrations of formononetin displayed obvious morphological changes of apoptosis under fluorescence microscopy. In addition, formononetin increased the proportion of early apoptotic DU-145 cells, down-regulated the protein levels of Bcl-2 and up-regulated those of RASD1 and Bax [1]. Formononetin significantly inhibited the cell growth of PC-3 in a dose-dependent manner, but no such effect was observed in RWPE1 cells. Formononetin treatment contributed to the reduced Bcl-2 protein level and the elevated Bax expression in PC-3 cells, thereby resulting in the increasing Bax/Bcl-2 ratios. Furthermore, the phosphorylated level of p38 in PC-3 cells was activated through the FN treatment, whereas the endogenous Akt phosphorylation was blocked [2]. Compared with the control, formononetin inhibited the proliferation of MCF-7 cells and effectively induced cell cycle arrest. The levels of p-IGF-1 R, p-Akt, cyclin D1 protein expression, and cyclin D1 mRNA expression were also downregulated [3].

in vivo: formononetin also prevented the tumor growth of human breast cancer cells in nude mouse xenografts [3].





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